

REMARKS

Applicants respectfully request reconsideration of the present application in view of the reasons that follow.

Claims 31-44, 48, and 54-62 are pending in this application.

In paragraphs 2-3 of the Office Action, claims 40-44, 54 and 57 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. This rejection is respectfully traversed.

With regard to Claim 40, the Office Action states that “using a same size amount of a display as when displaying an image in the first display mode” is not found in the specification. In paragraph [0022], the specification states that the color depth can be managed according to the requirements of the displayed application. It also states that the display modes can include “64 bit color, 32 bit color, 24 bit color, 18 bit color, 16 bit color, monochrome, text, high resolution, low resolution, medium resolution.” It is respectfully submitted that one of ordinary skill in the art would understand that a change in any of these display modes when switching from one application to another (e.g., phone list, geographic maps, photographs, as stated in para. [0022]) could involve keeping the display size the same or changing the display size (as seen in claims 10-11 as filed).

With regard to Claim 54, the Office Action states that “an image displayed based on the second amount of information has a same resolution as an image displayed based on the first amount of information” is not found in the specification. As described above, the display modes include different color depths and different resolutions. It is respectfully submitted that one of ordinary skill in the art would understand that a change in color depth could involve keeping a same resolution or also changing the resolution, according to the requirements of the displayed application.

Accordingly, reconsideration and withdrawal of the rejection of these claims is respectfully requested.

In paragraphs 4-5, claims 31-37, 39, 48, 56, and 58-62 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nookala et al. (U.S. Patent No. 5,860,016) in view of Phillipps (U.S. Patent No. 6,137,481). This rejection is respectfully traversed.

Phillipps discloses an LCD which can be operated in two modes. (Phillipps, Abstract). In one mode, a whole display is used, while in a low power mode, only a portion of the display is used. (Phillipps, 1:38-48). Phillipps distances its teachings from a prior document:

Another proposed solution is given in EP-A-0 474 231. The document proposes shrinking the displayed image if no user inputs are received for a predetermined period. Consequently, the power demanded by the display is reduced.

A disadvantage of this approach is that *the whole of the display must be used when a user is inputting commands or data*, regardless of whether the full display is necessary for the task in hand.

It is an aim of the present invention to overcome the aforementioned disadvantages of prior art portable computer apparatus.

(Emphasis added). Thus, Phillipps teaches away from displays which require switching to a full power, whole-display mode before commands or data can be inputted.

Nookala et al. is such a system. Nookala has a NORMAL operating mode and a low power SNOOZE operating mode. When switching to the SNOOZE operating mode, the clock signal is “shut off . . . to all of the modules, including CPU 206, except LCD controller 211 and memory controller 210.” (Nookala, 5:28-32). In Nookala, the device must be returned to the NORMAL operating mode before the CPU is functioning, and therefore can act on user commands or input. (Nookala, 1:48-2:6).

Therefore, one of ordinary skill in the art would not attempt to combine the two modes of Phillipps with the two modes of Nookala, since Phillipps teaches away from the modes of Nookala.

Second, even if one were to attempt to combine the modes of Phillipps with the modes of Nookala, the combination would frustrate the intended purpose of Phillipps. In Phillipps, the purpose is to use the whole of the display or a portion thereof and still be responsive to operation of a user input means to perform data processing when only the portion of the display is being used. (Phillipps, 2:15-21). In Nookala, switching to the low power SNOOZE mode disables the CPU, thereby disabling data processing of user inputs, which would frustrate the intended purpose of Phillipps.

Accordingly, since Phillipps and Nookala are not properly combinable, reconsideration and withdrawal of the rejection of claims 31-37, 39, 48, 56 and 58-62 is respectfully requested.

Regarding claims 33 and 48, these claims recite “wherein in the second mode only textual types of graphical information are displayed.” The Office Action states that Phillipps teaches this feature at 3:30-45 wherein it discloses a calculator function. The calculator of Phillipps is shown in FIG. 4(a) and shows images of buttons, which are not textual data. Accordingly, claims 33 and 48 are further allowable for this additional reason.

In paragraph 6 of the Office Action, claim 38 is rejected under 35 U.S.C. 103(a) as being unpatentable over Nookala in view of Phillipps and further in view of O’Leary (U.S. Patent No. 6,750,850). This rejection is respectfully traversed.

First, Nookala and Phillipps are not properly combinable, as set forth above. Second, O’Leary is directed to a pager device, having a display with preferably 240 characters or less, or a “maximum of eight lines, with 17 characters per line.” (O’Leary, 3:24-31). O’Leary, in fact, teaches away from PDAs of the type having a keyboard, since such devices “may be too large to be conveniently carried by the user.” (O’Leary, 2:6-20). The Office Action points to the hand-

held computer system of Nookala, which is the type having a keyboard 204, and suggests one of ordinary skill in the art would combine the pager synchronization of O'Leary with the PDA of Nookala. However, as noted, O'Leary teaches away from such PDAs having a keyboard as being too large. Further, a small screen with a "maximum of eight lines" is less likely to have a need for a display having a low power mode with a smaller amount of data. Therefore, one of ordinary skill in the art would not combine the teachings of O'Leary with those of Nookala.

Accordingly, reconsideration and withdrawal of the rejection of Claim 38 in paragraph 6 is respectfully requested.

In paragraph 7 of the Office Action, Claim 54 is rejected under 35 U.S.C. 103(a) based on Nookala in view of Phillipps, and further in view of Tse et al. (U.S. Patent No. 5,473,342). This rejection is respectfully traversed.

As set forth above, the combination of Nookala and Phillipps is improper. Claim 54 is allowable for at least this reason. Accordingly, reconsideration and withdrawal of the rejection of Claim 54 is respectfully requested.

Applicants believe that the present application is now in condition for allowance. Favorable reconsideration of the application as amended is respectfully requested.

The Examiner is invited to contact the undersigned by telephone if it is felt that a telephone interview would advance the prosecution of the present application.

The Commissioner is hereby authorized to charge any additional fees which may be required regarding this application under 37 C.F.R. §§ 1.16-1.17, or credit any overpayment, to Deposit Account No. 19-0741. Should no proper payment be enclosed herewith, as by the credit card payment instructions in EFS-Web being incorrect or absent, resulting in a rejected or incorrect credit card transaction, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 19-0741. If any extensions of time are needed for timely acceptance of

papers submitted herewith, Applicants hereby petition for such extension under 37 C.F.R. §1.136 and authorizes payment of any such extensions fees to Deposit Account No. 19-0741.

Respectfully submitted,

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